

Date: March 5, 1999

Page 1

**TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 USC 371**

International Application No.: PCT/US97/15611
International Filing Date: September 5, 1997
Priority Date Claimed: September 6, 1996
Title of Invention: VITRIFICATION SOLUTIONS FOR SHELF PRESERVATION OF CELLS,
TISSUES, ORGANS AND ORGANISMS
Applicant(s) for DO/EO/US: US

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. (X) This is a **FIRST** submission of items concerning a filing under 35 USC 371.
2. (X) This express request to begin national examination procedures (35 USC 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 USC 371(b) and PCT Articles 22 and 39(1).
3. (X) A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
4. (X) A copy of the International Application as filed (35 USC 371(c)(2))
 - a. () is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. () has been transmitted by the International Bureau.
 - c. (X) is not required, as the application was filed in the United States Receiving Office (RO/US).
5. (X) Amendments to the claims of the International Application under PCT Article 19 (35 USC 371(c)(3))
 - a. () are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. () have been transmitted by the International Bureau.
 - c. () have not been made; however, the time limit for making such amendments has NOT expired.
 - d. (X) have not been made and will not be made.
6. (X) A copy of the International Preliminary Examination Report with any annexes thereto, such as any amendments made under PCT Article 34.
7. (X) International Application as published.
8. (X) Small Entity Statement.
9. (X) PCT request form.
10. (X) International Search Report.
11. (X) A return prepaid postcard.
12. (X) The following fees are submitted:

Date: March 5, 1999


Page 2

				FEES
BASIC FEE				\$670
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	
Total Claims	24 - 20 =	4 x	\$18	\$72
Independent Claims	4 - 3 =	1 x	\$78	\$78
Multiple dependent claims(s) (if applicable)			\$260	\$
TOTAL OF ABOVE CALCULATIONS				\$820
Reduction by 1/2 for filing by small entity (if applicable). Verified Small Entity statement must also be filed. (NOTE 37 CFR 1.9, 1.27, 1.28)				\$410
TOTAL NATIONAL FEE				\$410
TOTAL FEES ENCLOSED				\$410
amount to be refunded:				\$
amount to be charged:				\$

13. (X) A check in the amount of \$410 to cover the above fees is enclosed.
14. (X) The Commissioner is hereby authorized to charge only those additional fees which may be required to avoid abandonment of the application, or credit any overpayment to Deposit Account No. 11-1410. A duplicate copy of this sheet is enclosed.
- NOTE:** Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

KNOBBE, MARTENS, OLSON & BEAR, LLP
620 Newport Center Drive
Sixteenth Floor
Newport Beach, CA 92660


Signature

Daniel E. Altman
Printed Name

34,115
Registration Number

MRBV-I:dd
030599



LOUIS J. KNOBBE*
DON W. MARTENS*
GORDON H. OLSON**
JAMES B. BEAR
DARRELL L. OLSON*
WILLIAM B. BUNKER
WILLIAM H. NIEMAN
LOWELL ANDERSON
ARTHUR S. ROSE*
JAMES F. LESNIAK
NED A. ISRAELSEN
DREW S. HAMILTON
JERRY T. SEWELL
JOHN B. SGANGA, JR.
EDWARD A. SCHLATTER
GERARD VON HOFFMANN
JOSEPH R. RE
CATHERINE J. HOLLAND
JOHN M. CARSON
KAREN VOGEL WEIL*
ANDREW H. SIMPSON
JEFFREY L. VAN HOOSEAR
DANIEL E. ALTMAN
ERNEST A. BEUTLER
MARGUERITE L. GUNN
STEPHEN C. JENSEN
VITO A. CANUSO III
WILLIAM H. SHREVE
LYNDA J. ZADRA-SYMEST*
STEVEN J. NATAUPSKY

PAUL A. STEWART
JOSEPH F. JENNINGS
CRAIG S. SUMMERS
ANNEMARIE KAISER
BRENTON R. BABCOCK*
THOMAS F. SMERAL, JR.
MICHAEL H. TRENHOLM
DIANE M. REED
JONATHAN A. BARNEY
RONALD J. SCHOENBAUM
JOHN R. KING
FREDERICK S. BERRETTA
NANCY WAYS VENSKE
JOHN P. GIEZENTANNER
ADEEL S. AKHTAR
RICHARD C. GILMORE
THOMAS R. ARNO
DAVID N. WEISS
DANIEL HART
JAMES T. HAGLER
DOUGLAS G. MUEHLHAUSER
LORI L. YAMATO
STEPHEN M. LOBBIN
ANN A. BYUN
ROBERT F. GAZDZINSKI
FRED C. HERNANDEZ
STACEY R. HALPERN*
MICHAEL K. FRIEDLAND
DALE C. HUNT
LEE W. HENDERSON

DEBORAH S. SHEPHERD
RICHARD E. CAMPBELL
MARK M. ABUMERI
JON W. GURKA
KATHERINE W. WHITE
JOSEPH J. BASISTA
ERIC M. NELSON
ALEXANDER C. CHEN
MARK R. BENEDICT
PAUL N. CONOVER
JOHN P. MUSONE
ROBERT J. ROBY
SABING H. LEE
KAROLINE A. DELANEY
JOHN W. HOLCOMB
JAMES J. MULLEN, III
JOSEPH S. CIANFRANI
JOSEPH M. REISMAN
WILLIAM R. ZIMMERMAN
GLEN L. NUTTALL
ERIC S. FURMAN
DO TE KIM
TIRZAH ABE LOWE
GEOFFREY Y. IIDA
ALEXANDER S. FRANCO
SANJIVPAL S. GILL
SUSAN M. MOSS
GUY PERRY

OF COUNSEL
JERRY R. SEILER
JAPANESE PATENT ATTY
KATSUHIRO ARAI**
EUROPEAN PATENT ATTY
MARTIN HELLEBRANDT
KOREAN PATENT ATTY
MINCHEOL KIM
SCIENTISTS & ENGINEERS
(NON-LAWYERS)
RAIMOND J. SALENIEKS**
MICHAEL L. FULLER**
NEIL S. BARTFELD**
DANIEL E. JOHNSON**
JEFFERY KOEPKE
KHURRAM RAHMAN
JENNIFER A. HAYNES
BRENDAN P. O NEILL
MARRINA D. MEI
THOMAS Y. NAGATA
JOHN M. GROVER**
ALAN C. GORDON
PETER M. MIDDLEY
IRFAN A. LATEEF
AMY C. CHRISTENSEN
SHEILA N. SWAROOP

Assistant Commissioner for Patents
Washington, D.C. 20231

CERTIFICATE OF MAILING BY "EXPRESS MAIL"

Attorney Docket No. : UPTING.015A
Applicant(s) : Victor Bronshtein
For : VITRIFICATION SOLUTIONS FOR
SHELF PRESERVATION OF CELLS,
TISSUES, ORGANS AND ORGANISMS
Attorney : Daniel E. Altman
"Express Mail"
Mailing Label No. : EL207457467US
Date of Deposit : March 5, 1999

I hereby certify that the accompanying

Transmittal in Duplicate; Specification in 23 pages; **Signed** Declaration and
Power of Attorney in 2 pages; Small Entity Statement(s); Checks for Filing
Fees; Return Prepaid Postcard

are being deposited with the United States Postal Service "Express Mail Post Office to
Addressee" service under 37 CFR 1.10 on the date indicated above and are addressed to the
Assistant Commissioner for Patents, Washington, D.C. 20231.

Donald King

DWM-5024:dd
030599

BEST AVAILABLE COPY